FIG.1

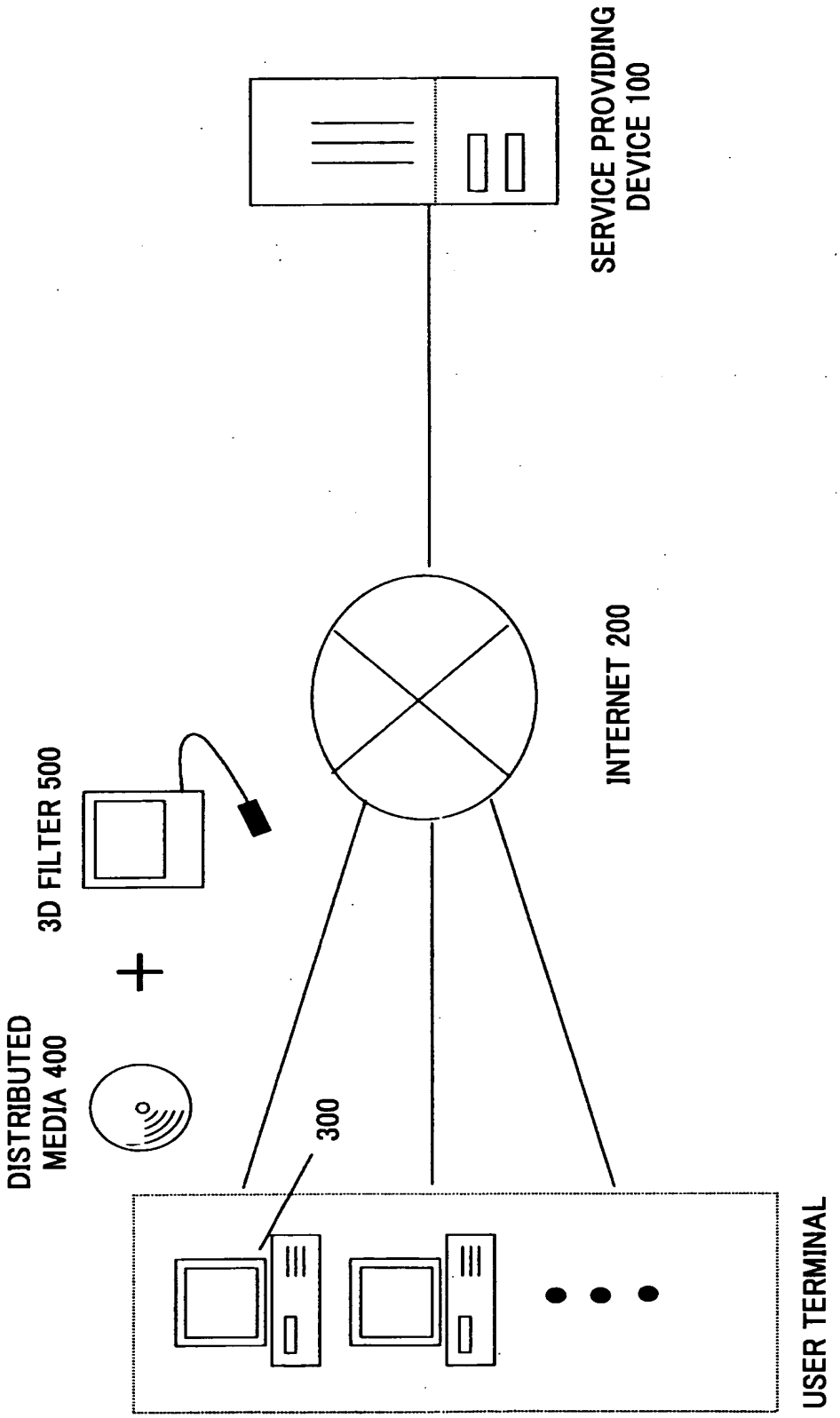

SERVICE PROVIDING DEVICE 100
INTERNET 200
3D FILTER 500
DISTRIBUTED MEDIA 400
300
USER TERMINAL

FIG.2

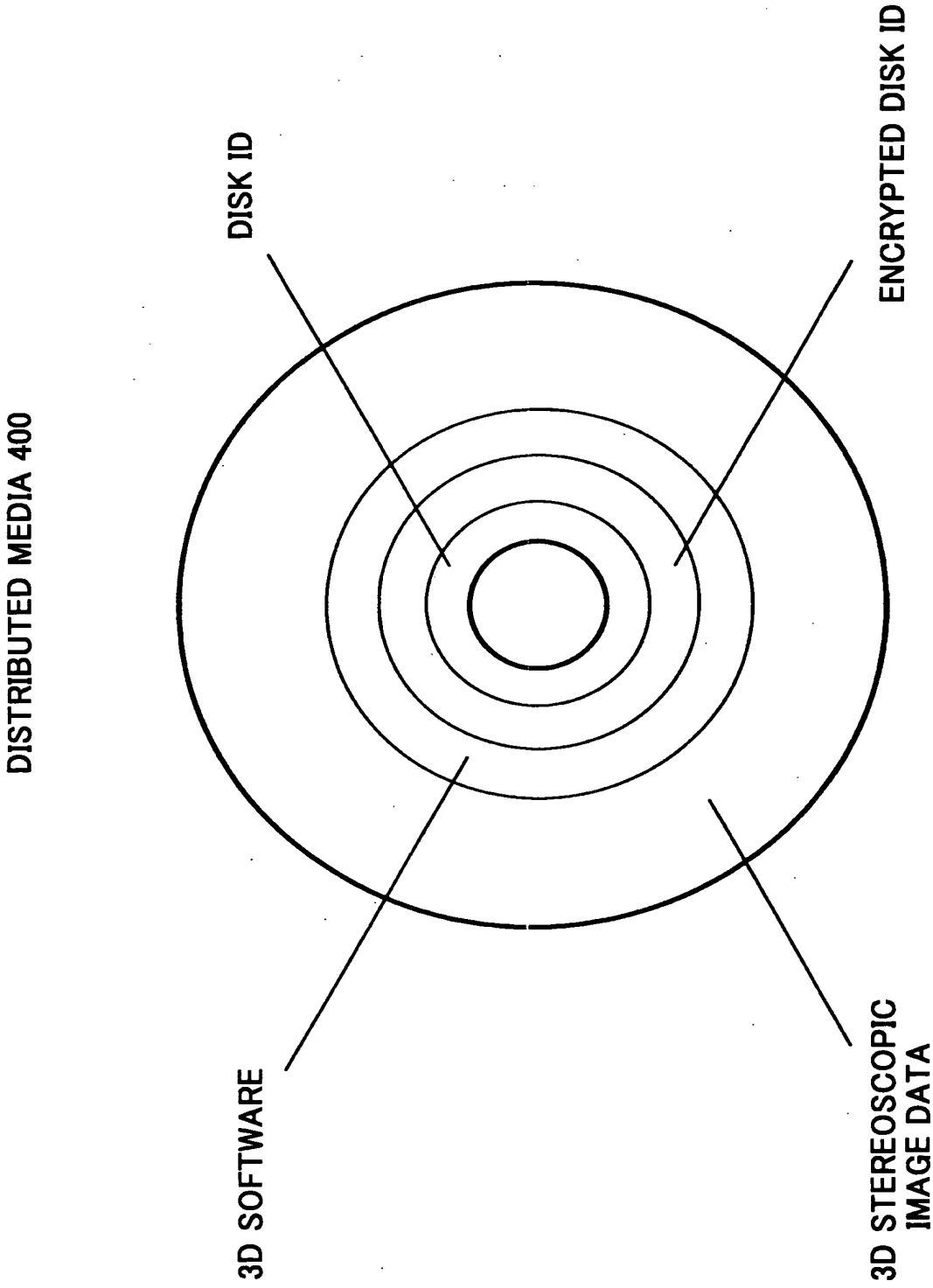

DISTRIBUTED MEDIA 400
DISK ID
ENCRYPTED DISK ID
3D SOFTWARE
3D STEREOSCOPIC IMAGE DATA

FIG.3

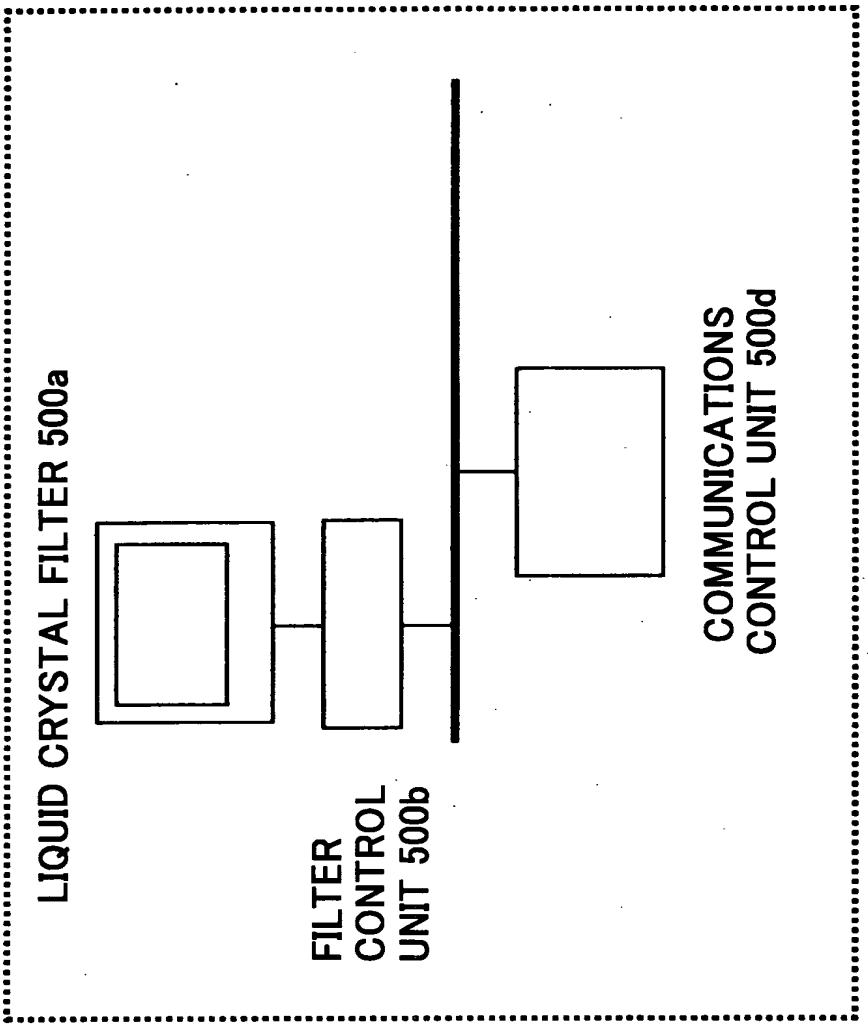

LIQUID CRYSTAL FILTER 500a
FILTER CONTROL UNIT 500b
COMMUNICATIONS CONTROL UNIT 500d
3D FILTER 500

FIG.4

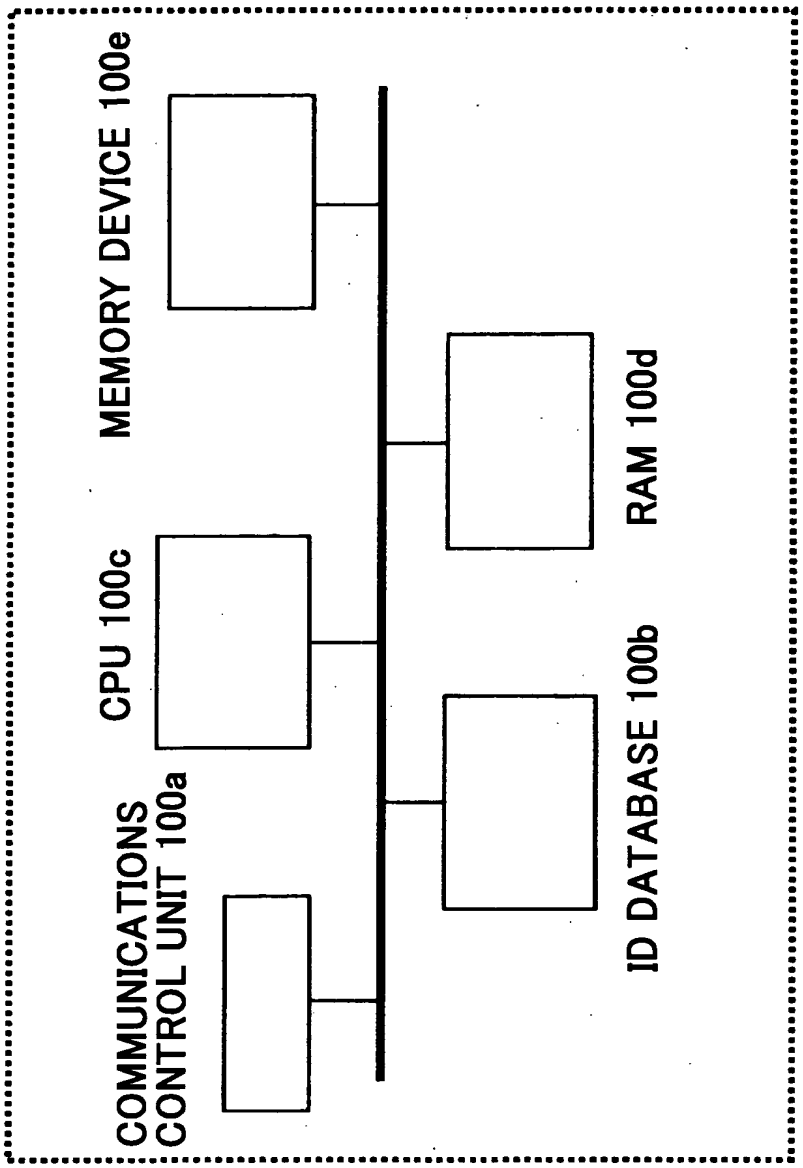
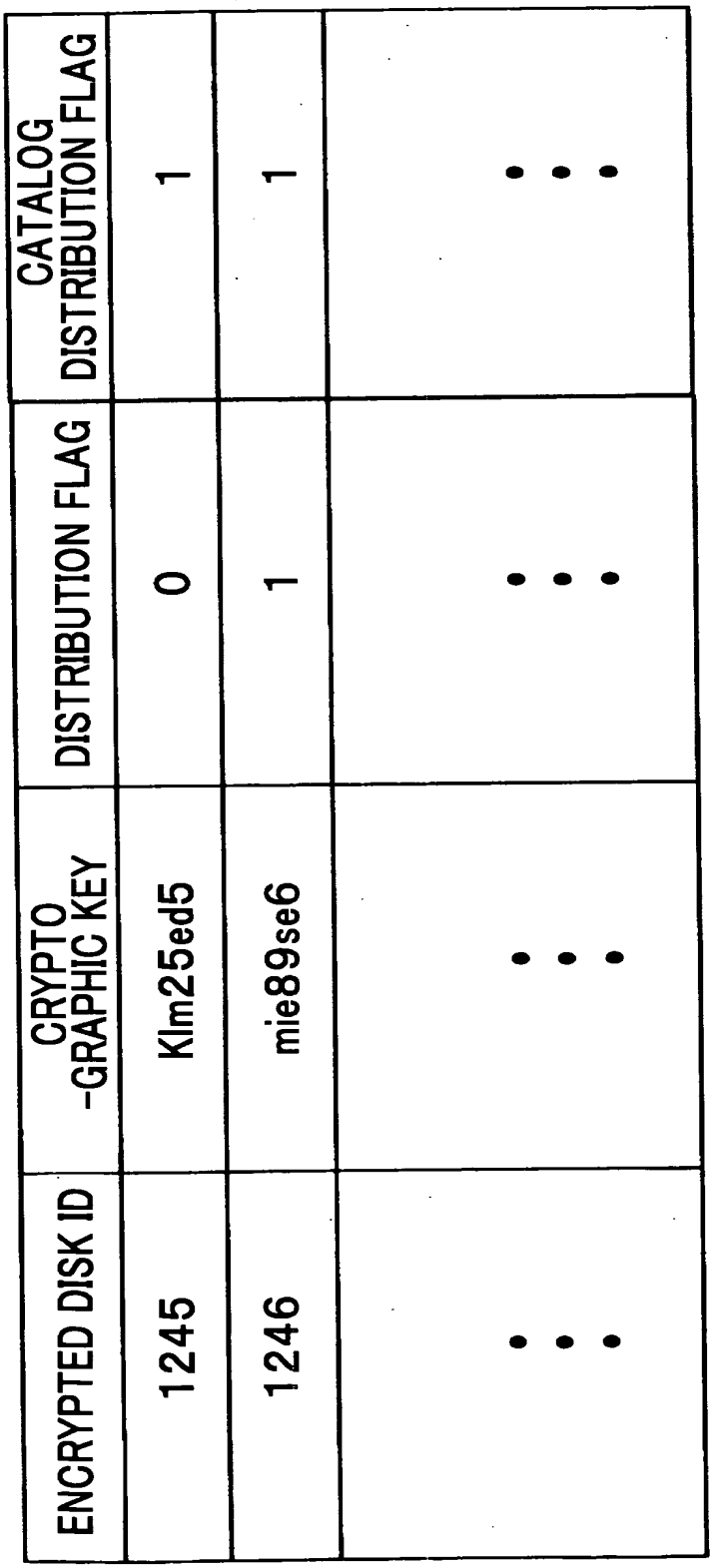

SERVICE PROVIDING DEVICE 100
COMMUNICATIONS CONTROL UNIT 100a
CPU 100c
MEMORY DEVICE 100e
ID DATABASE 100b
RAM 100d

FIG.5



ENCRYPTED DISK ID	CRYPTO -GRAPHIC KEY	DISTRIBUTION FLAG	CATALOG DISTRIBUTION FLAG
1245	Klm25ed5	0	1
1246	mie89se6	1	1
• • •	• • •	• • •	• • •

FIG.6

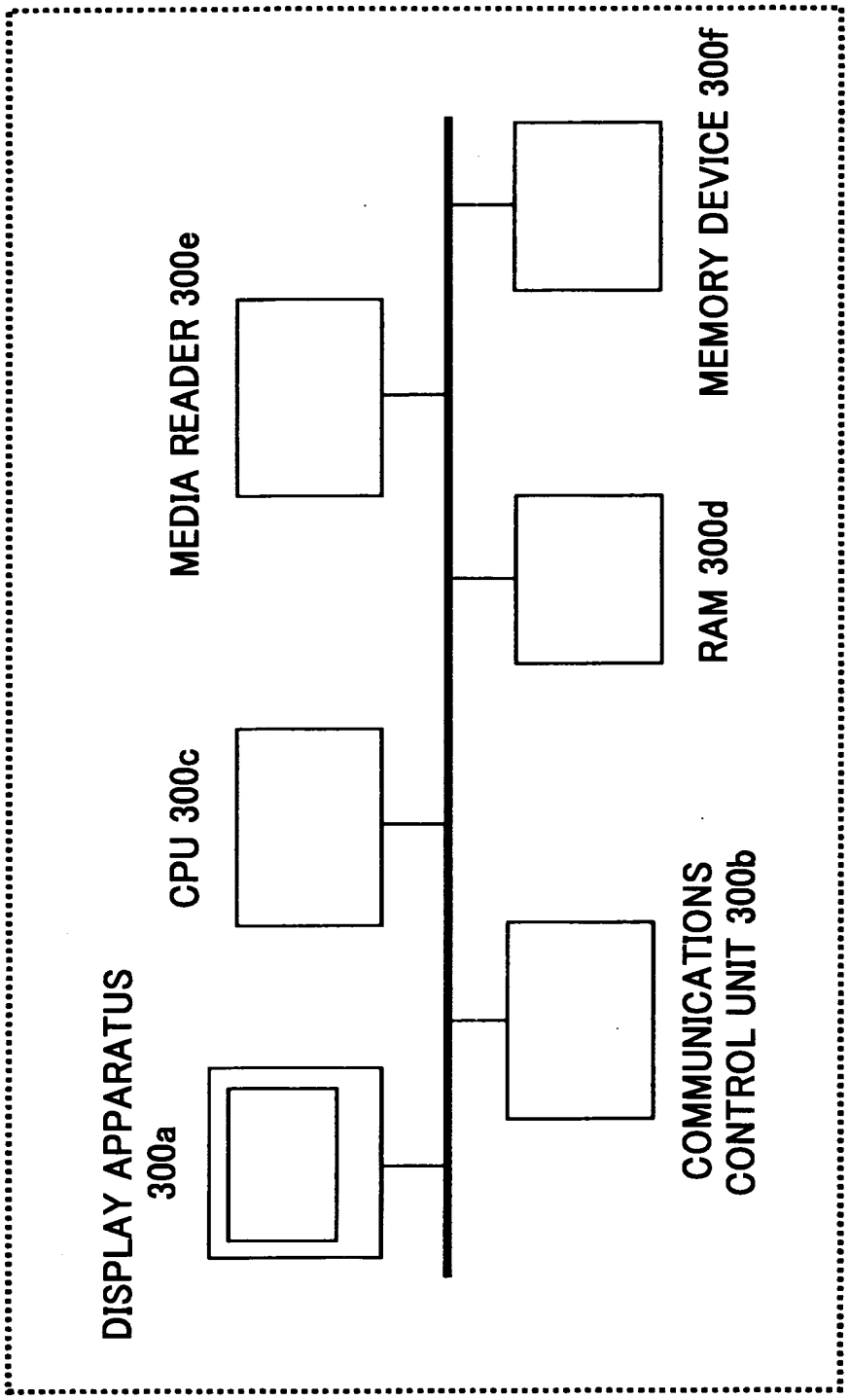

DISPLAY APPARATUS
300a
CPU 300c
MEDIA READER 300e
COMMUNICATIONS
CONTROL UNIT 300b
RAM 300d
MEMORY DEVICE 300f
USER TERMINAL 300

FIG.7

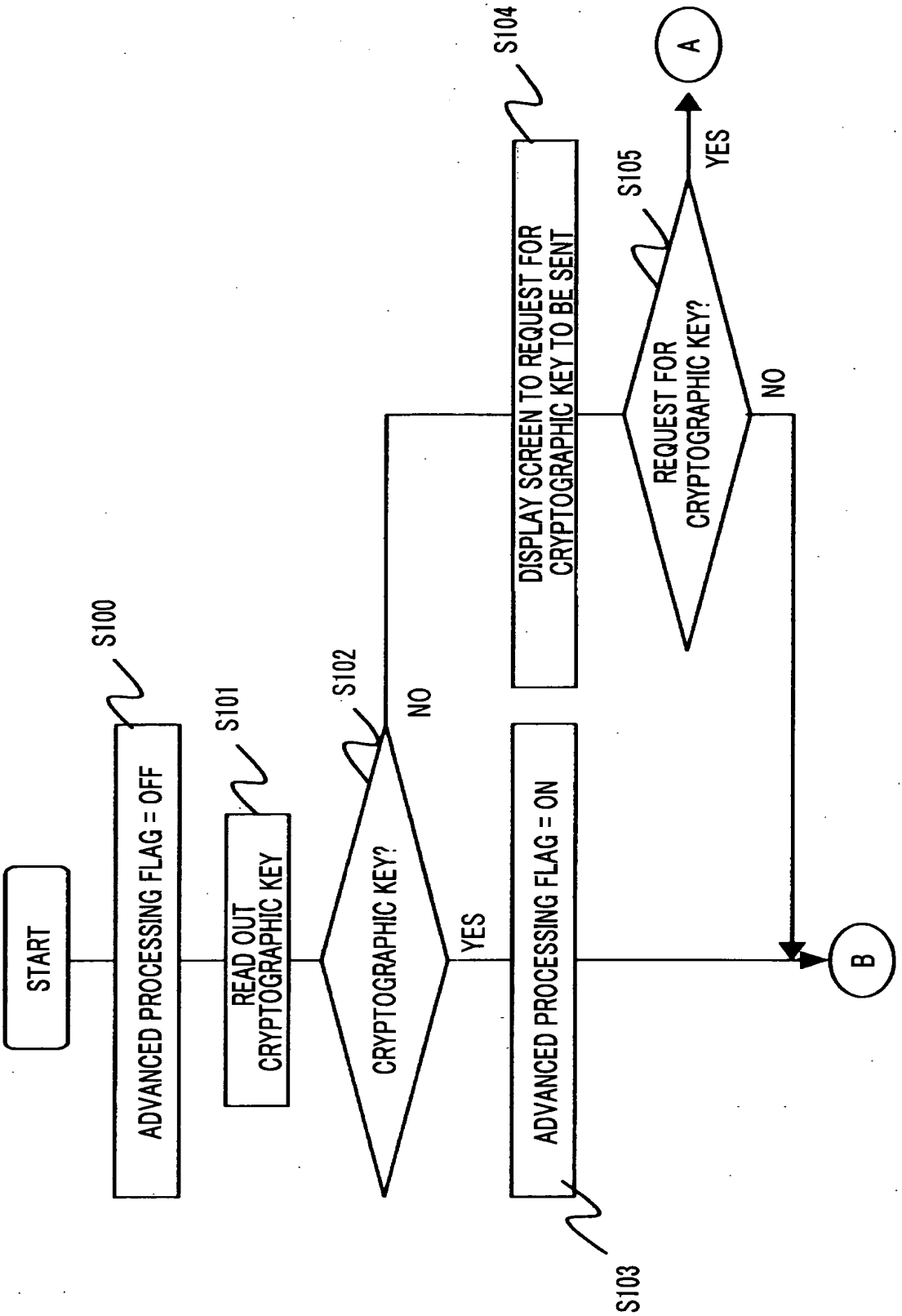

START
S100
ADVANCED PROCESSING FLAG = OFF
S101
READ OUT CRYPTOGRAPHIC KEY
S102
CRYPTOGRAPHIC KEY?
NO
YES
S103
ADVANCED PROCESSING FLAG = ON
S104
DISPLAY SCREEN TO REQUEST FOR CRYPTOGRAPHIC KEY TO BE SENT
S105
REQUEST FOR CRYPTOGRAPHIC KEY?
YES
NO
A
B

FIG.8

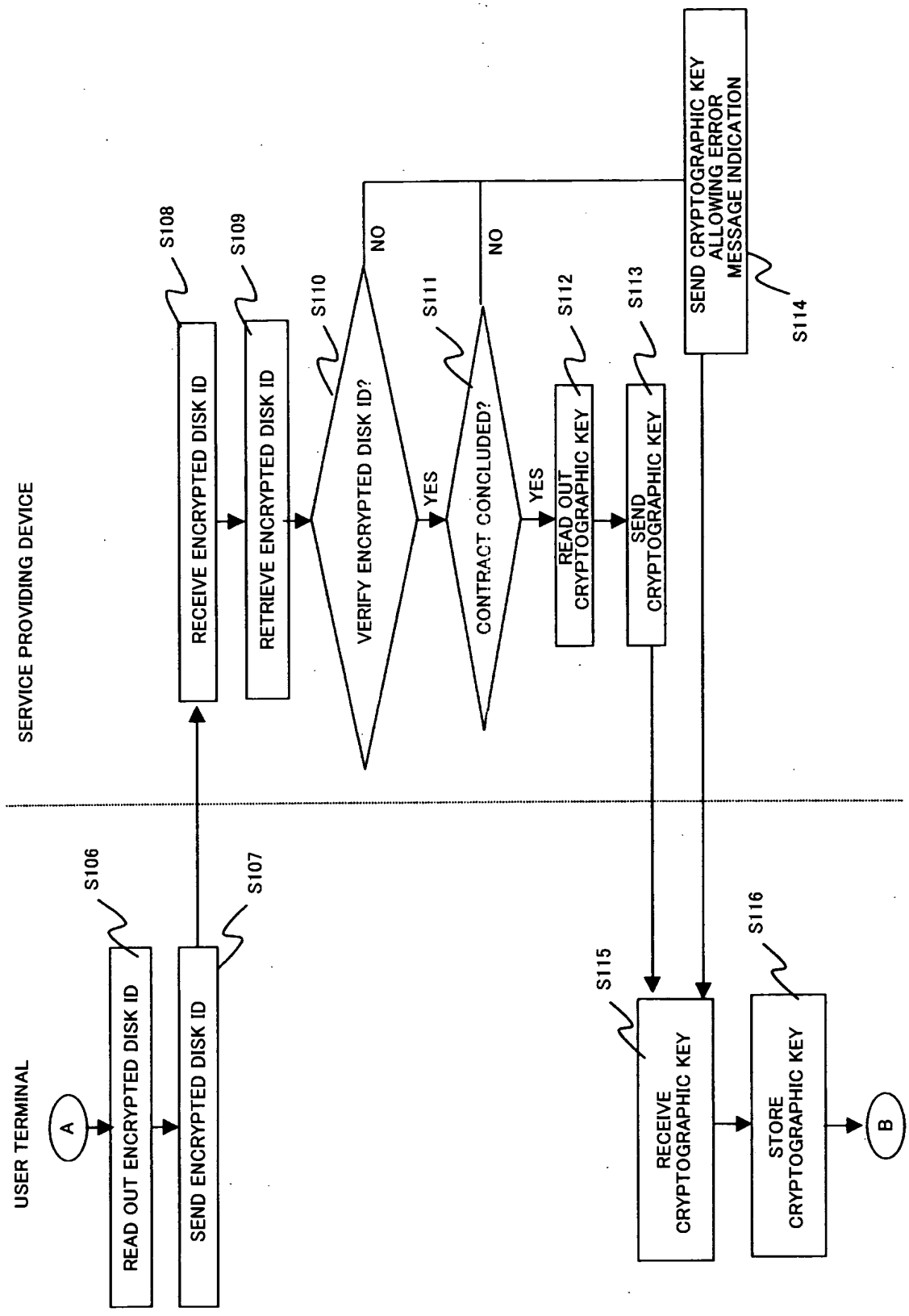

USER TERMINAL
SERVICE PROVIDING DEVICE
A
READ OUT ENCRYPTED DISK ID
S106
SEND ENCRYPTED DISK ID
S107
RECEIVE ENCRYPTED DISK ID
S108
RETRIEVE ENCRYPTED DISK ID
S109
VERIFY ENCRYPTED DISK ID?
S110
NO
YES
CONTRACT CONCLUDED?
S111
NO
YES
READ OUT CRYPTOGRAPHIC KEY
S112
SEND CRYPTOGRAPHIC KEY
S113
SEND CRYPTOGRAPHIC KEY ALLOWING ERROR MESSAGE INDICATION
S114
RECEIVE CRYPTOGRAPHIC KEY
S115
STORE CRYPTOGRAPHIC KEY
S116
B

FIG.9

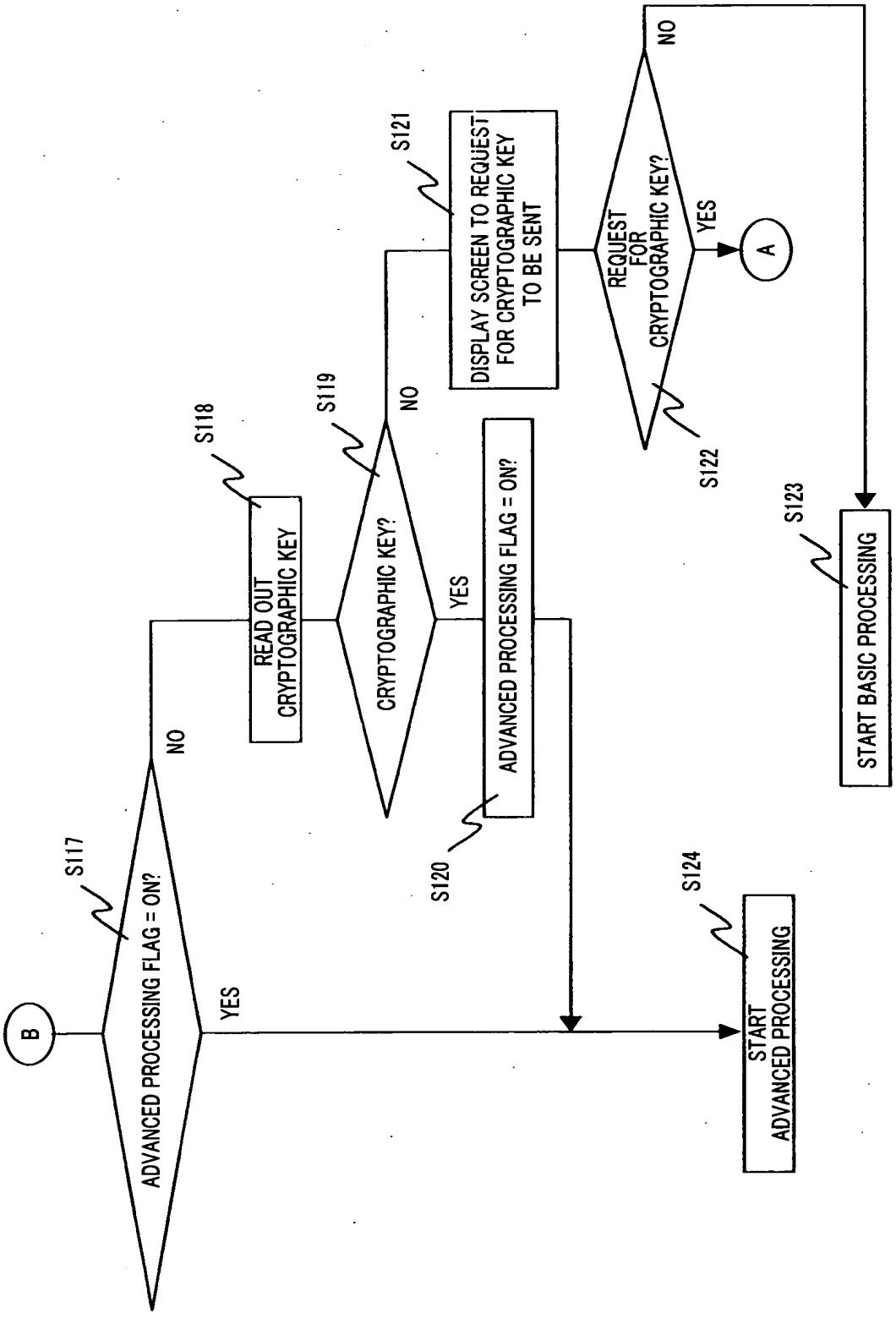

B
S117
ADVANCED PROCESSING FLAG = ON?
NO
YES
S118
READ OUT CRYPTOGRAPHIC KEY
S119
CRYPTOGRAPHIC KEY?
NO
YES
S120
ADVANCED PROCESSING FLAG = ON?
S121
DISPLAY SCREEN TO REQUEST FOR CRYPTOGRAPHIC KEY TO BE SENT
S122
REQUEST FOR CRYPTOGRAPHIC KEY?
YES
NO
A
S123
START BASIC PROCESSING
S124
START ADVANCED PROCESSING

FIG.10B

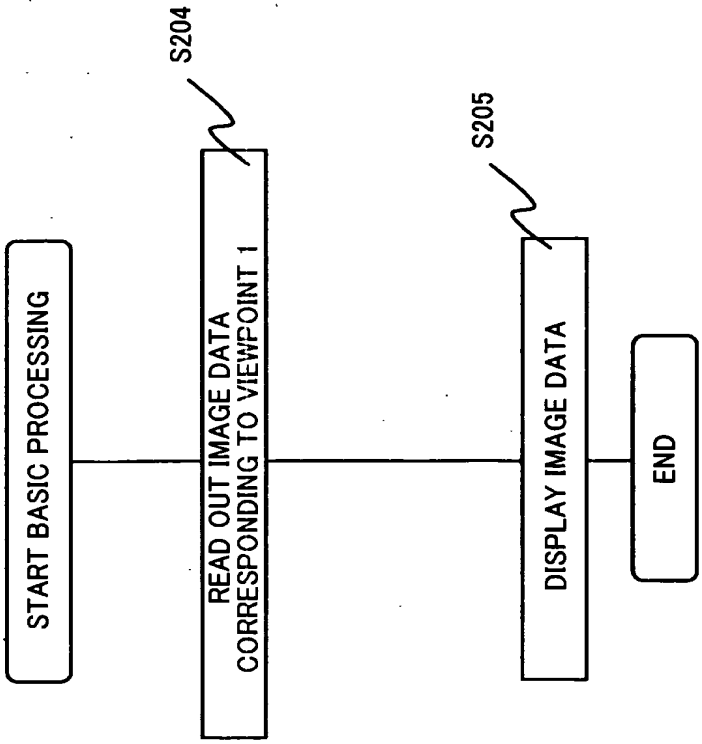


FIG.10A

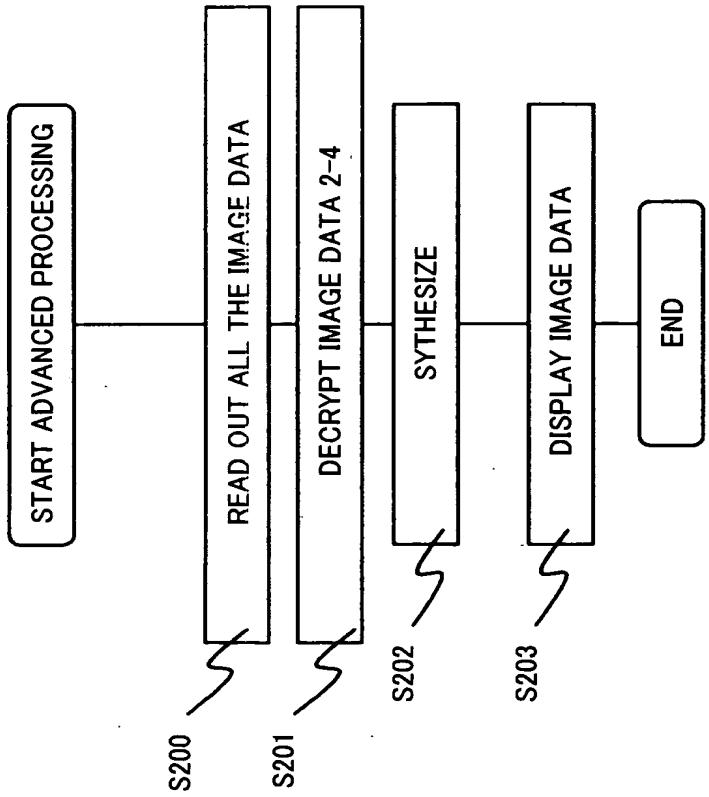


FIG.11B

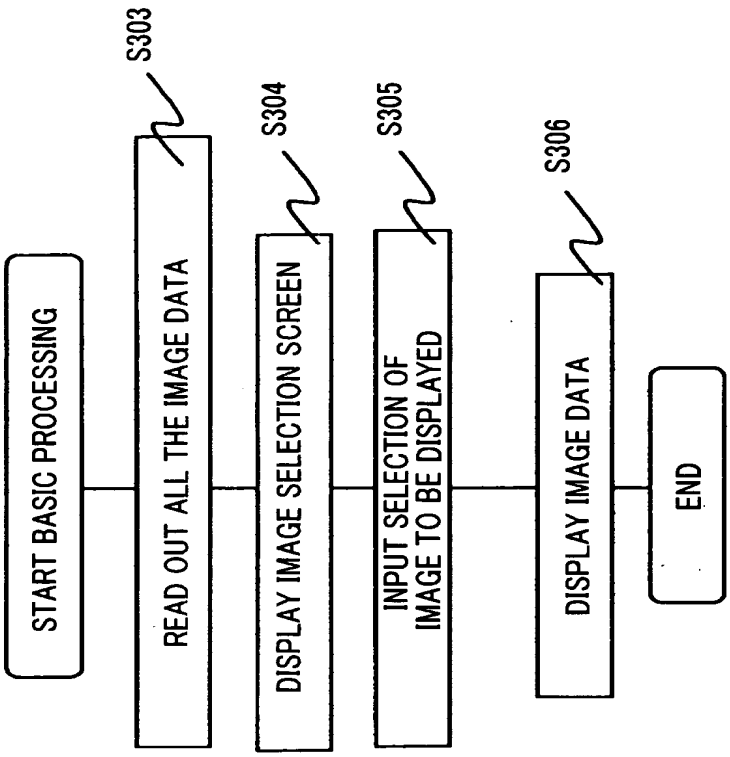


FIG.11A

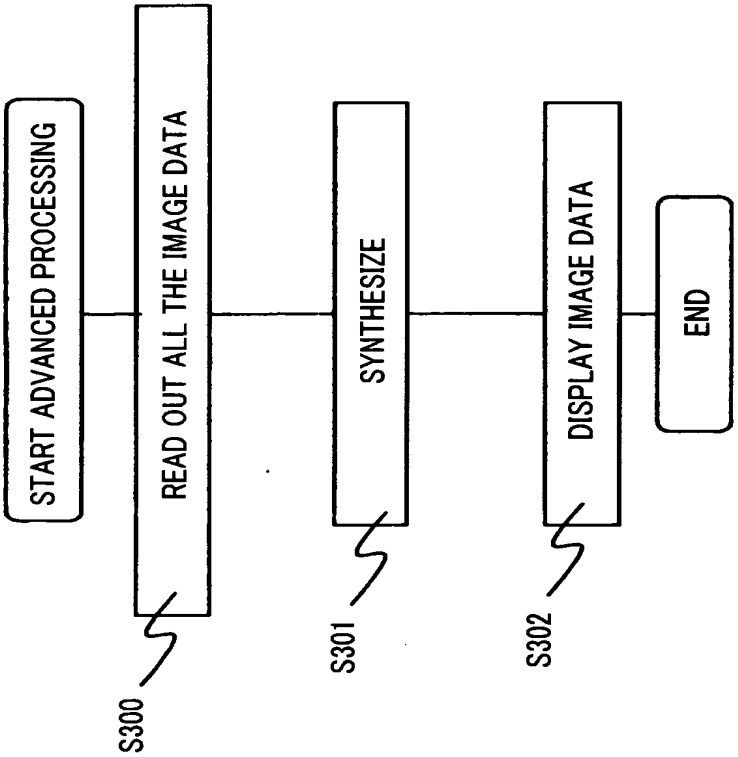


FIG.12B

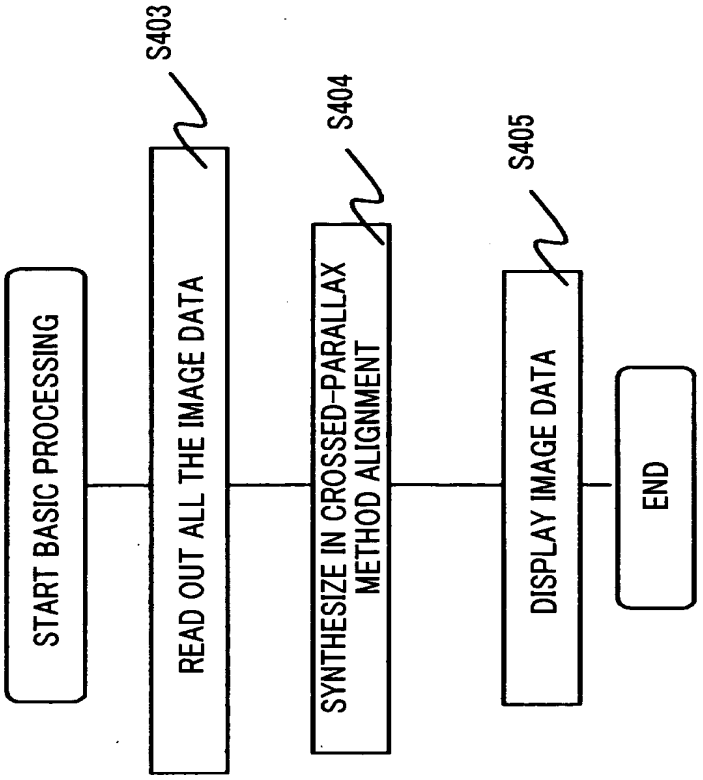


FIG.12A

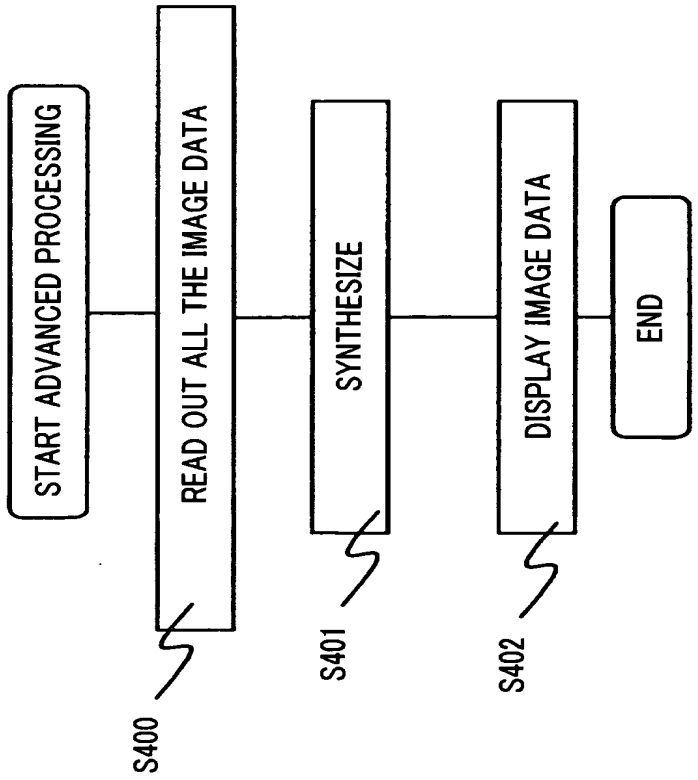


FIG.13B

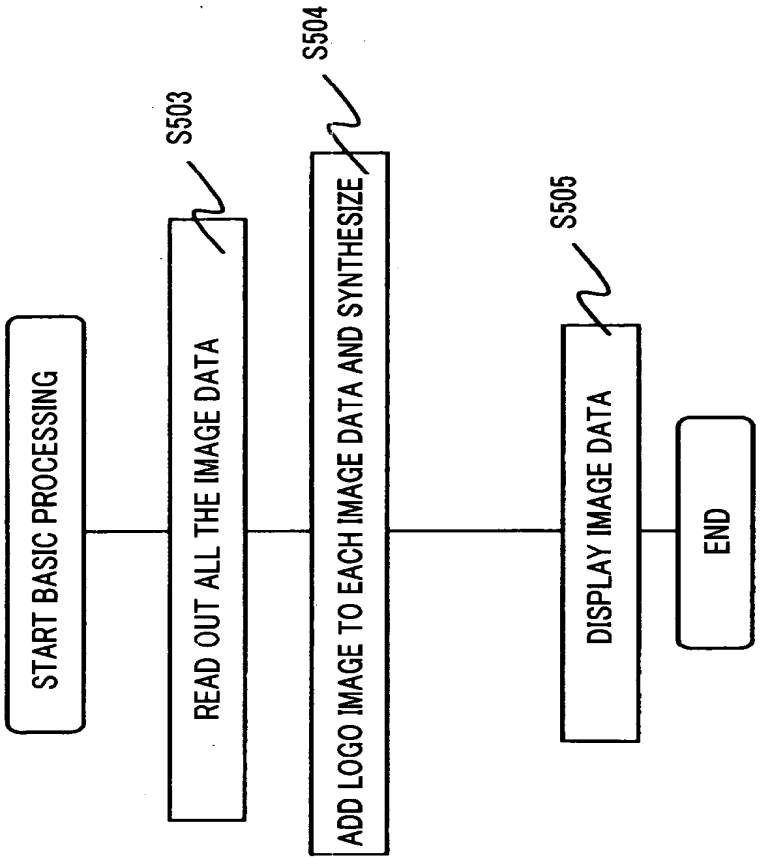


FIG.13A

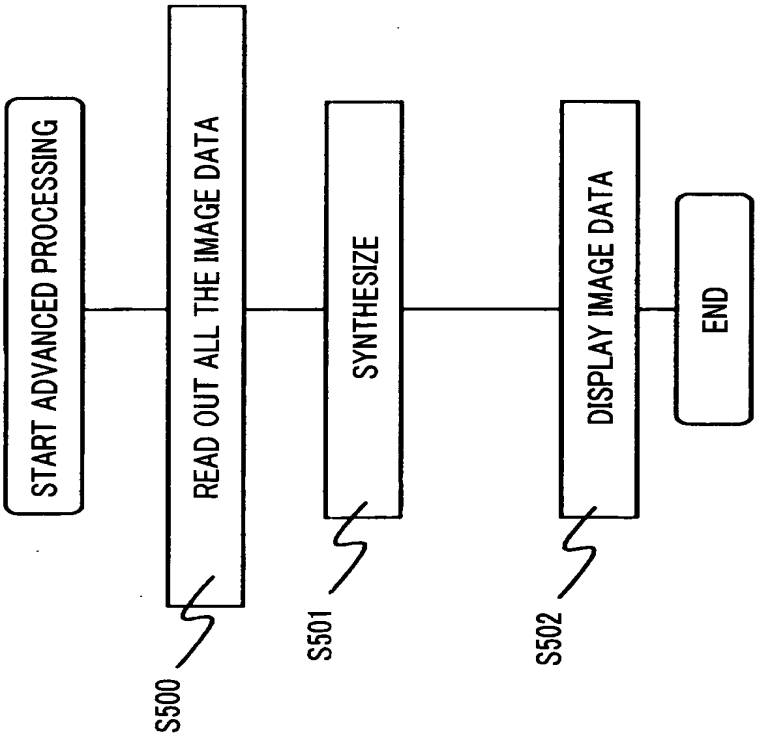


FIG.14B

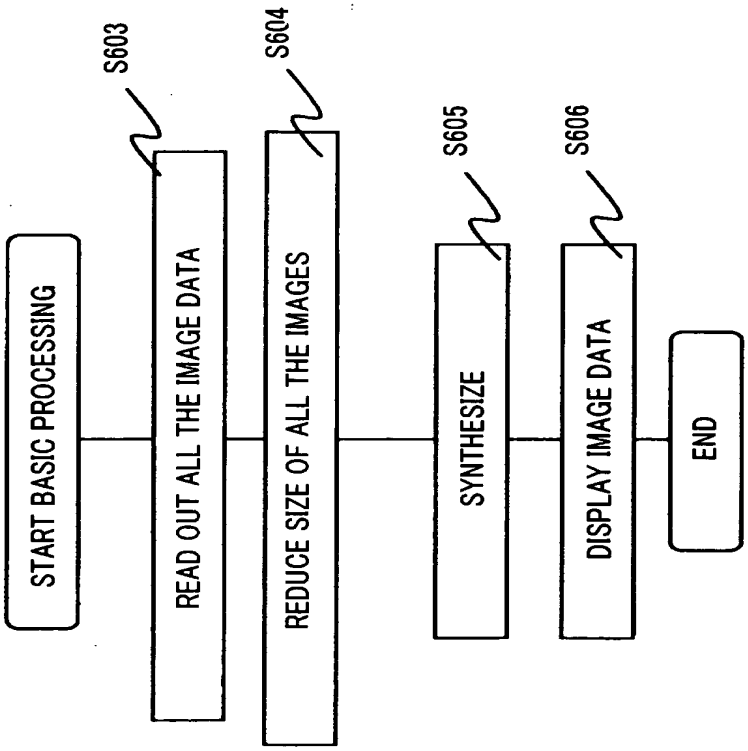


FIG.14A

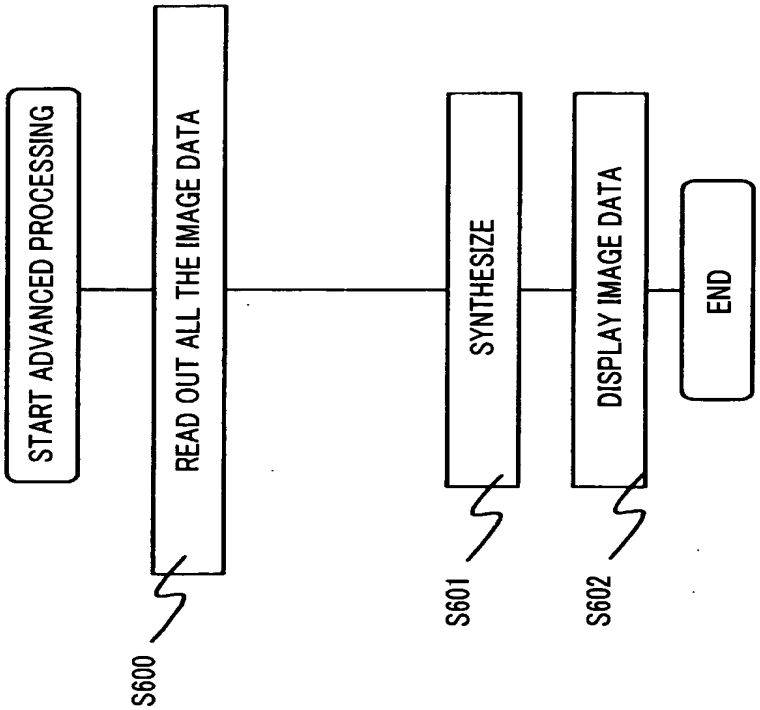


FIG.15B

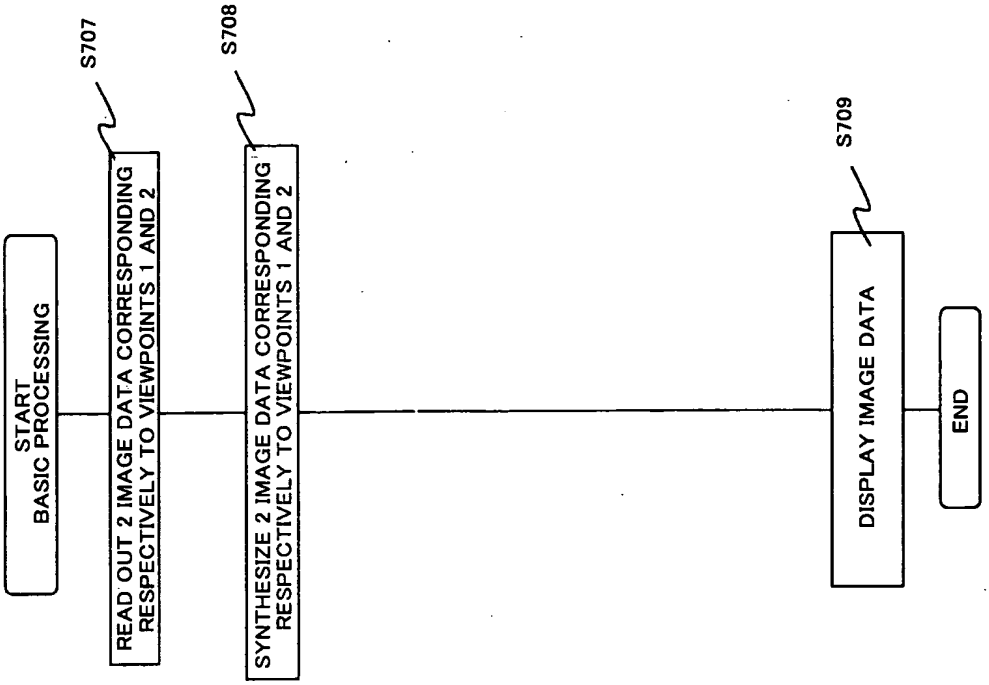


FIG.15A

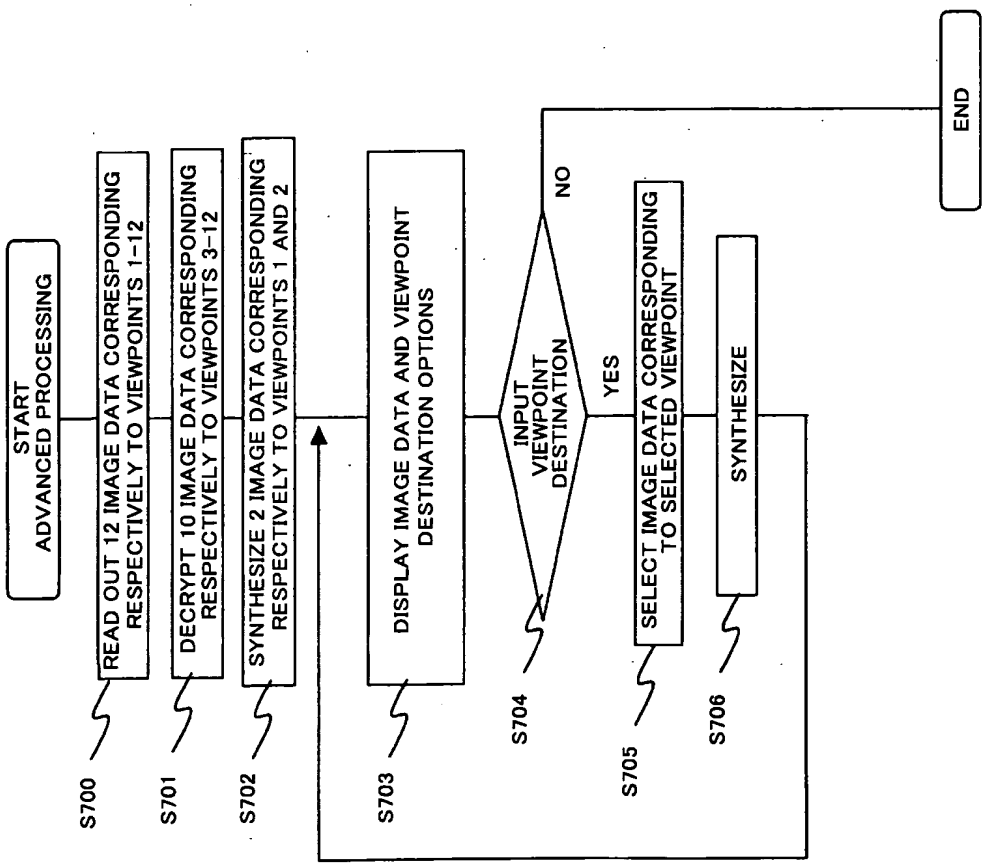


FIG.16B

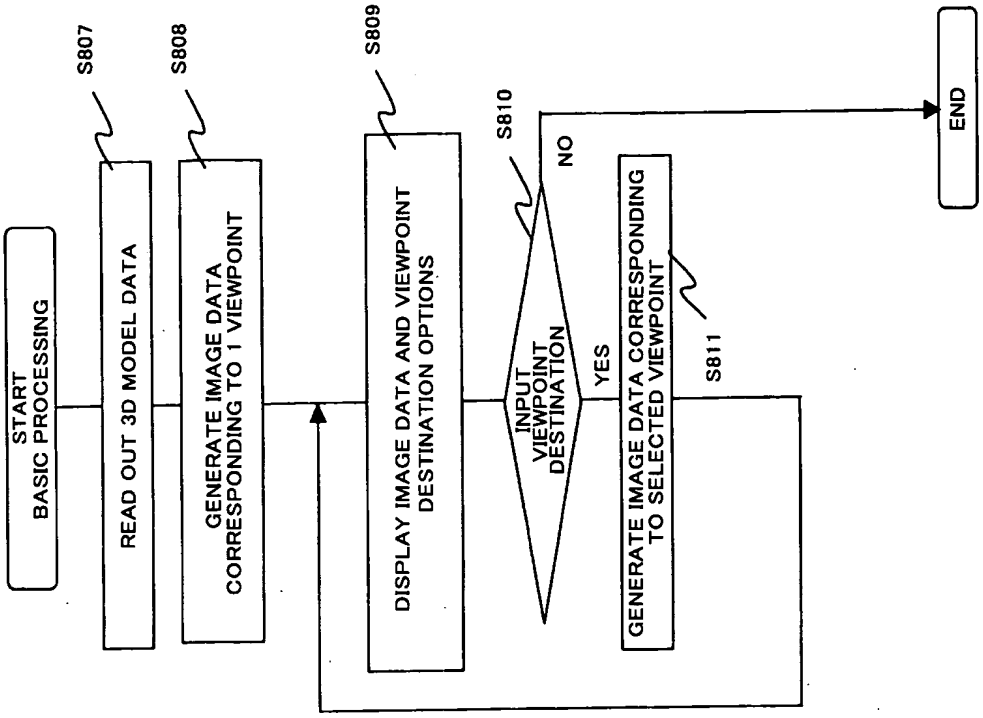


FIG.16A

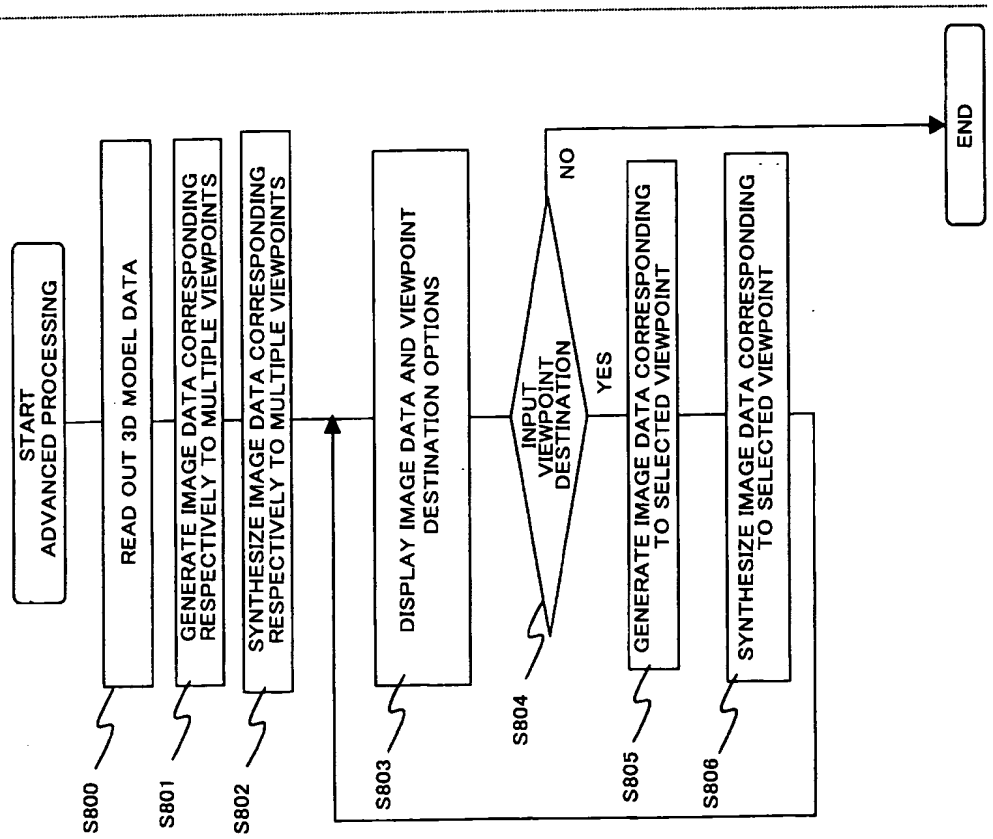


FIG.17B

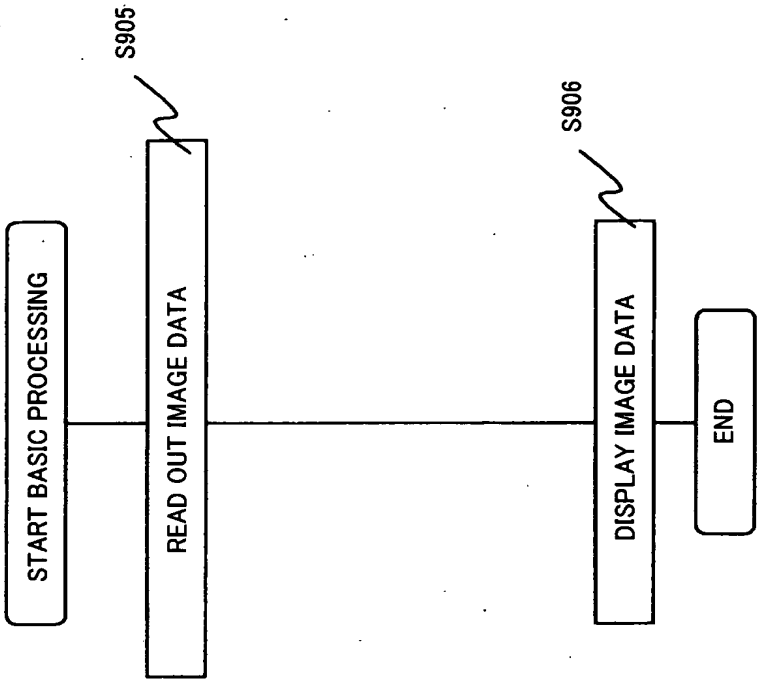


FIG.17A

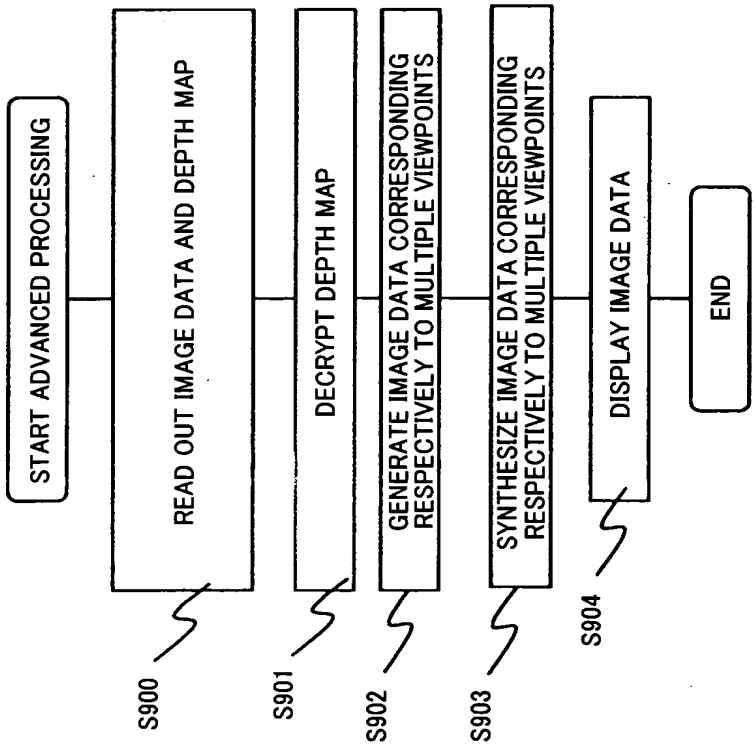


FIG.18

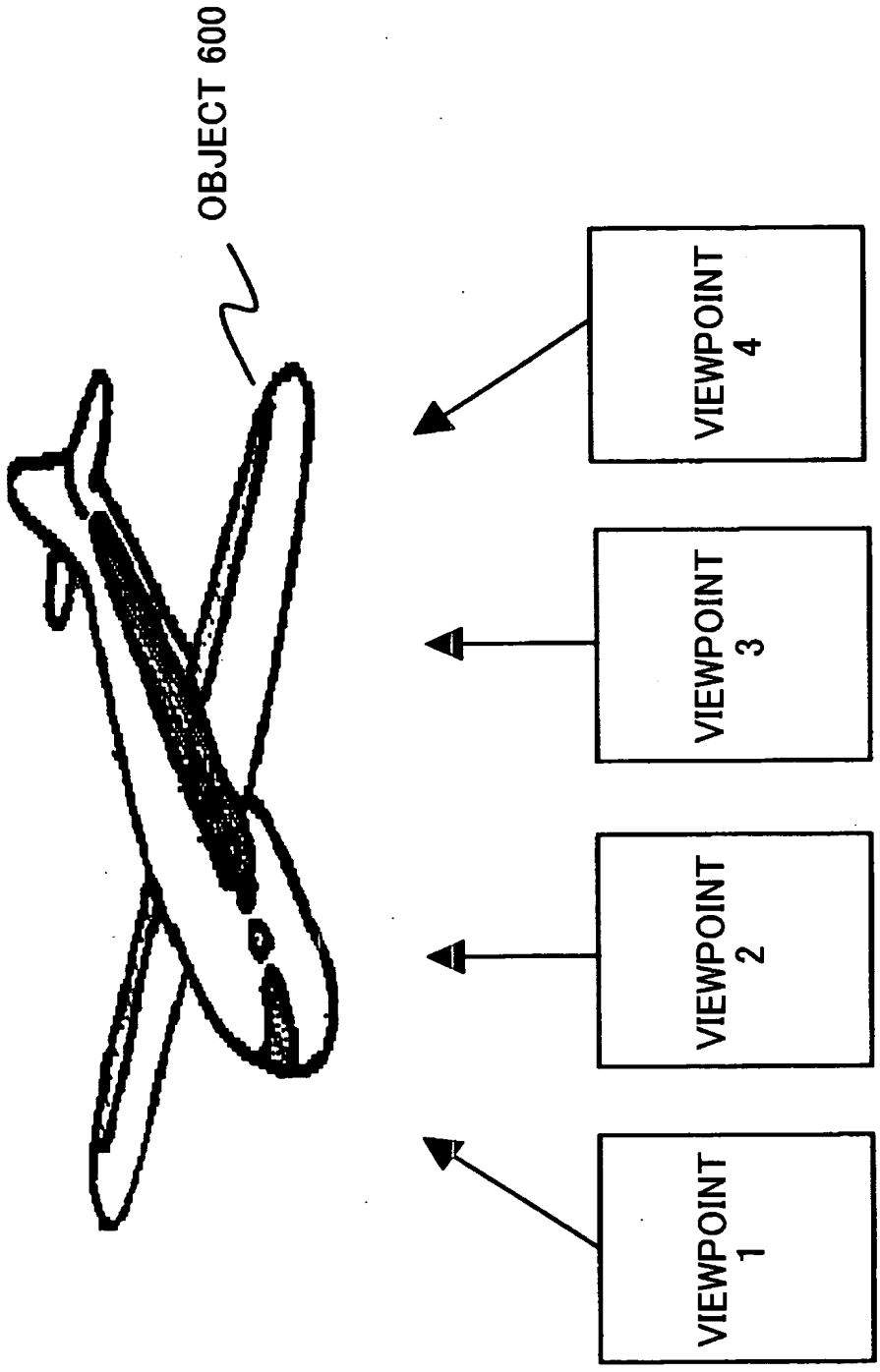


FIG.19

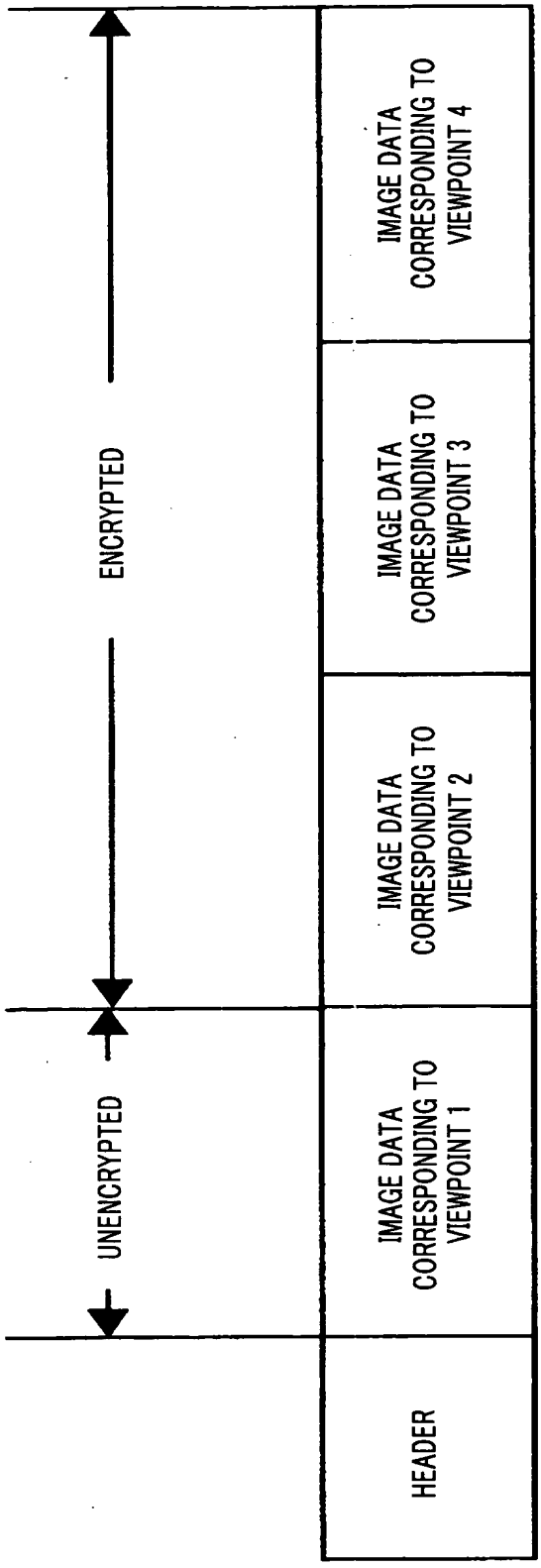
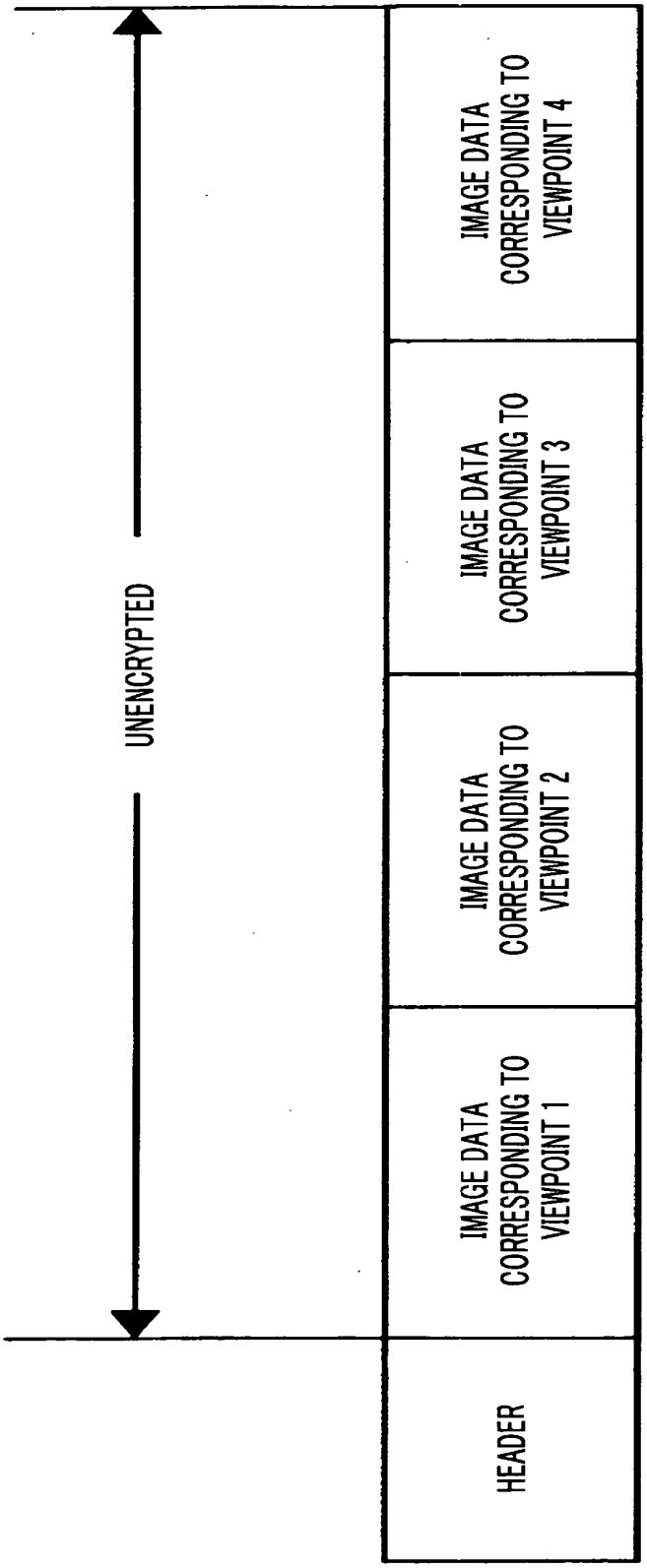
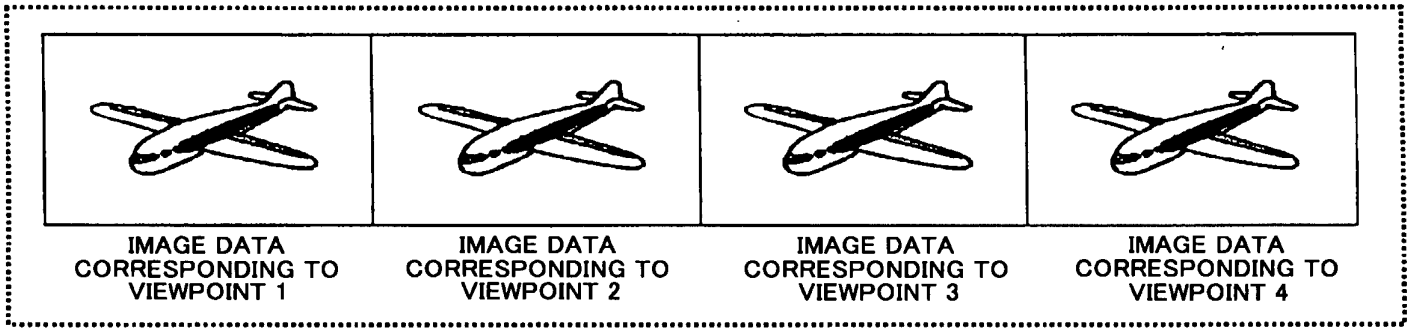

HEADER
IMAGE DATA CORRESPONDING TO VIEWPOINT 1
IMAGE DATA CORRESPONDING TO VIEWPOINT 2
IMAGE DATA CORRESPONDING TO VIEWPOINT 3
IMAGE DATA CORRESPONDING TO VIEWPOINT 4
UNENCRYPTED
ENCRYPTED
3D STEREOSCOPIC IMAGE DATA

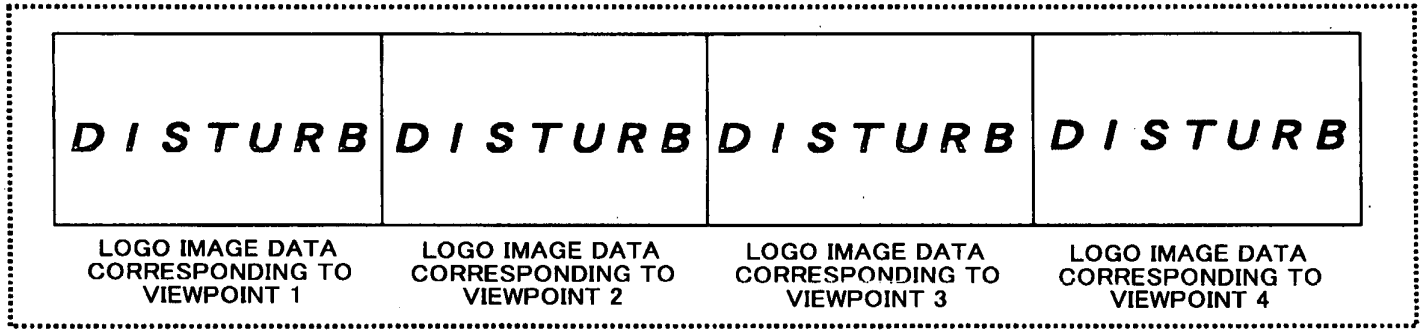
FIG.20


UNENCRYPTED
HEADER
IMAGE DATA CORRESPONDING TO VIEWPOINT 1
IMAGE DATA CORRESPONDING TO VIEWPOINT 2
IMAGE DATA CORRESPONDING TO VIEWPOINT 3
IMAGE DATA CORRESPONDING TO VIEWPOINT 4
3D STEREOSCOPIC IMAGE DATA



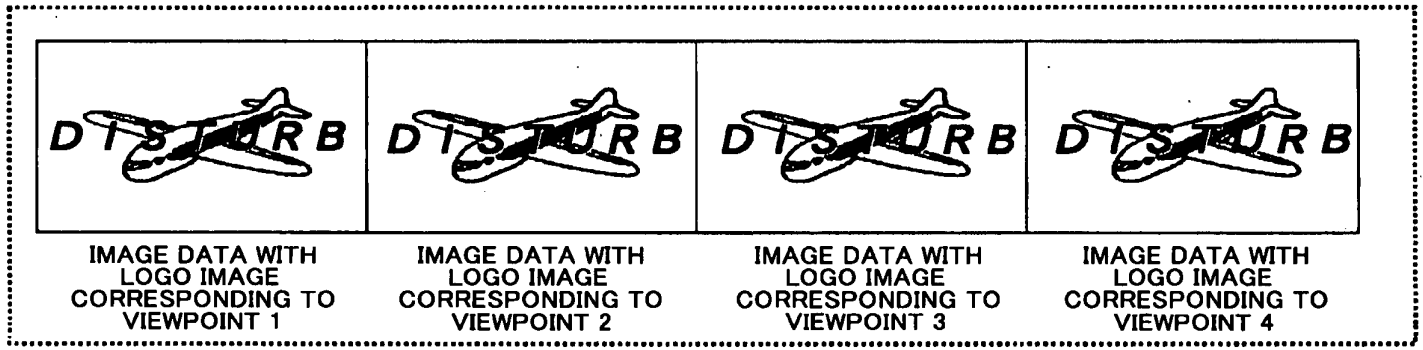
700 IMAGE DATA CORRESPONDING RESPECTIVELY TO VIEWPOINTS 1-4

FIG.21A



701 IMAGE DATA CORRESPONDING RESPECTIVELY TO VIEWPOINTS 1-4

FIG.21B



702 IMAGE DATA WITH LOGO IMAGE CORRESPONDING RESPECTIVELY TO VIEWPOINTS 1-4

FIG.21C

FIG.22

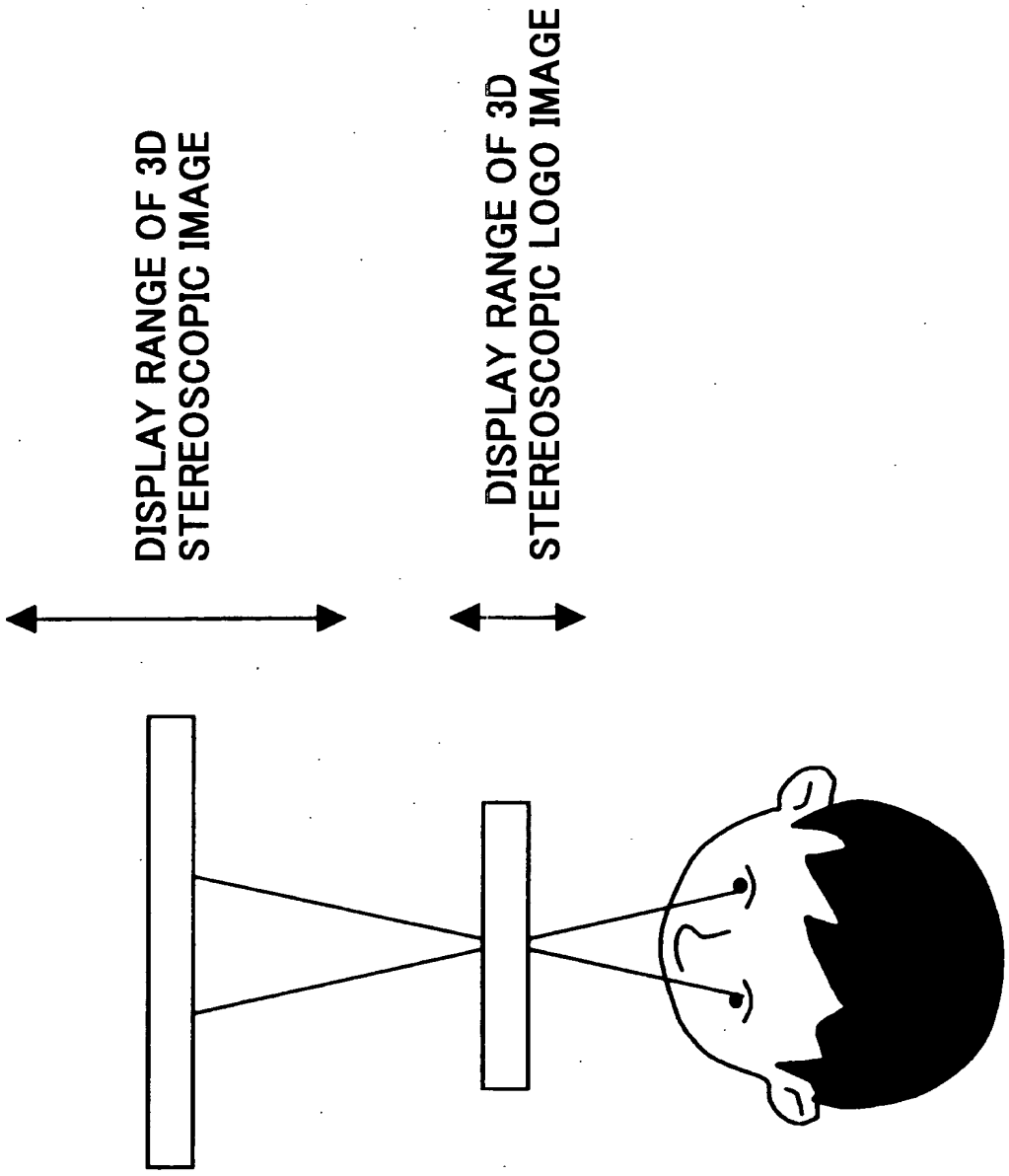

DISPLAY RANGE OF 3D STEREOSCOPIC IMAGE
DISPLAY RANGE OF 3D STEREOSCOPIC LOGO IMAGE

FIG.23

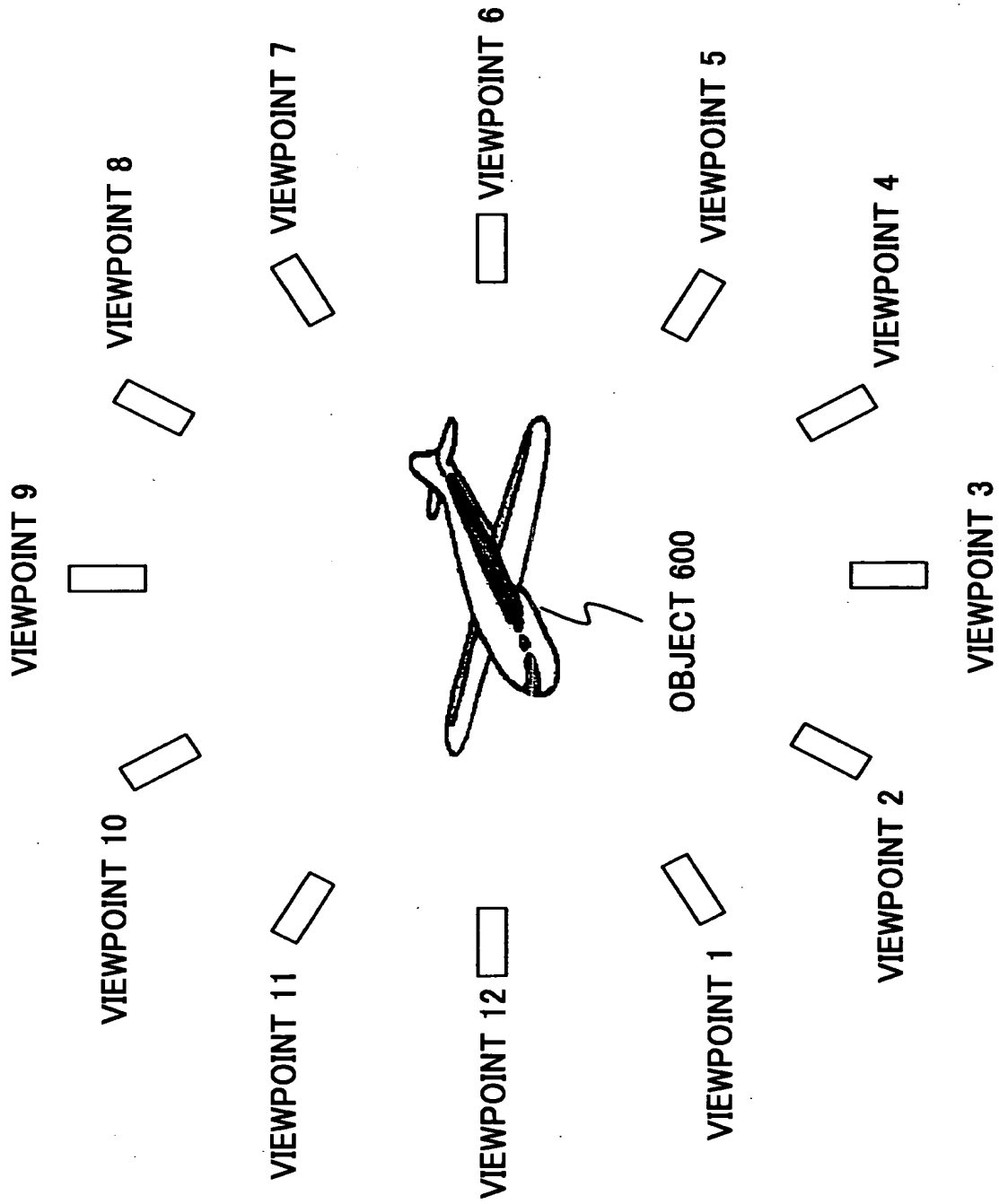

VIEWPOINT 9
VIEWPOINT 8
VIEWPOINT 7
VIEWPOINT 6
VIEWPOINT 5
VIEWPOINT 4
VIEWPOINT 10
VIEWPOINT 11
VIEWPOINT 12
VIEWPOINT 1
VIEWPOINT 2
VIEWPOINT 3
OBJECT 600

FIG.24

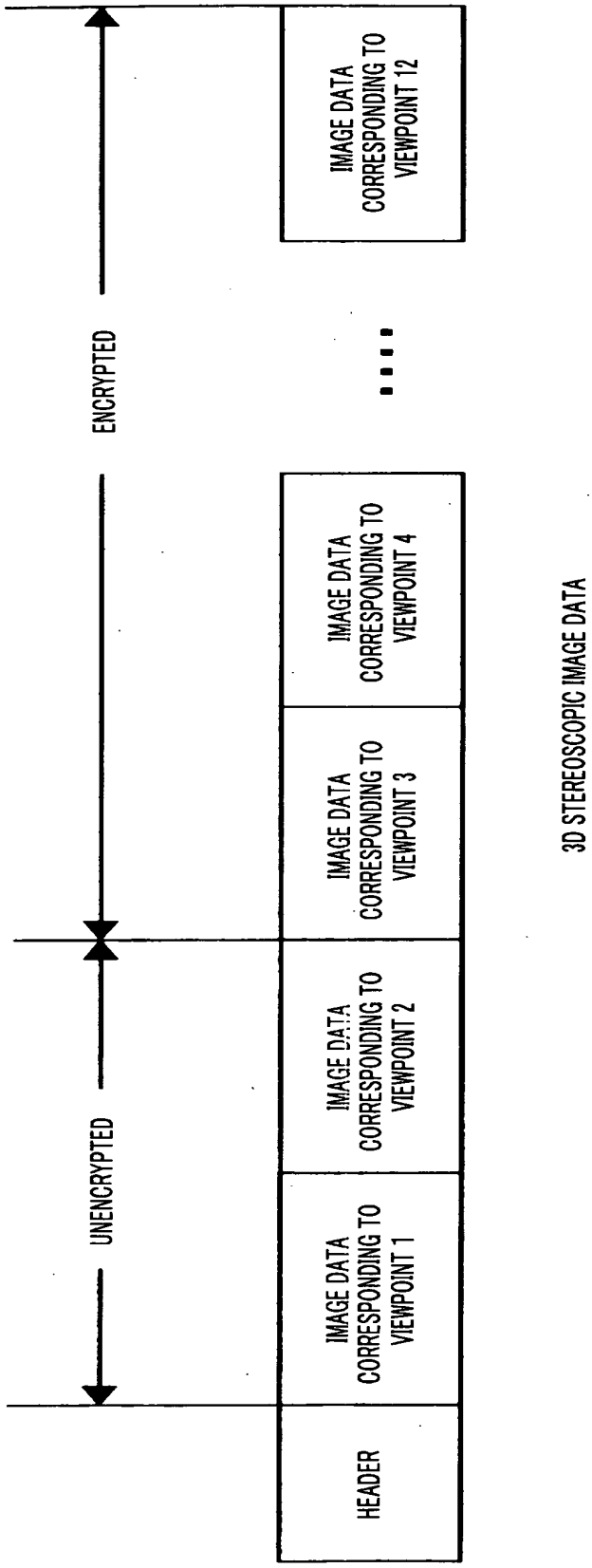

HEADER
IMAGE DATA CORRESPONDING TO VIEWPOINT 1
IMAGE DATA CORRESPONDING TO VIEWPOINT 2
IMAGE DATA CORRESPONDING TO VIEWPOINT 3
IMAGE DATA CORRESPONDING TO VIEWPOINT 4
IMAGE DATA CORRESPONDING TO VIEWPOINT 12
UNENCRYPTED
ENCRYPTED
3D STEREOSCOPIC IMAGE DATA

FIG.25

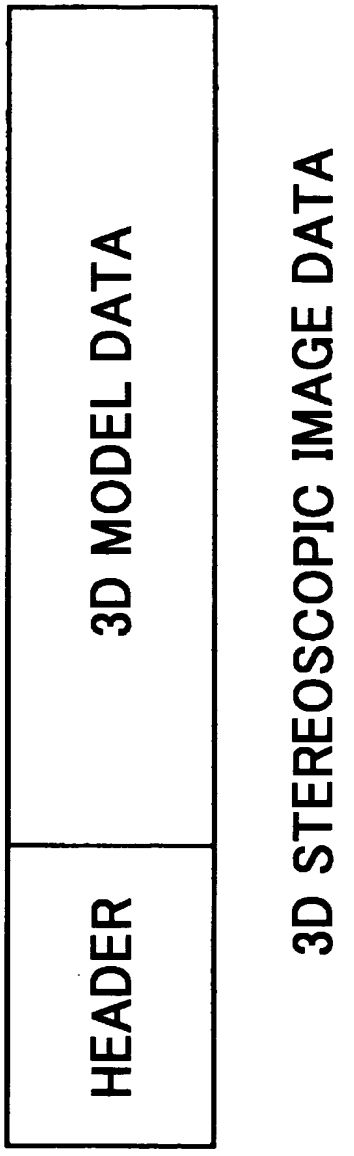


FIG.26

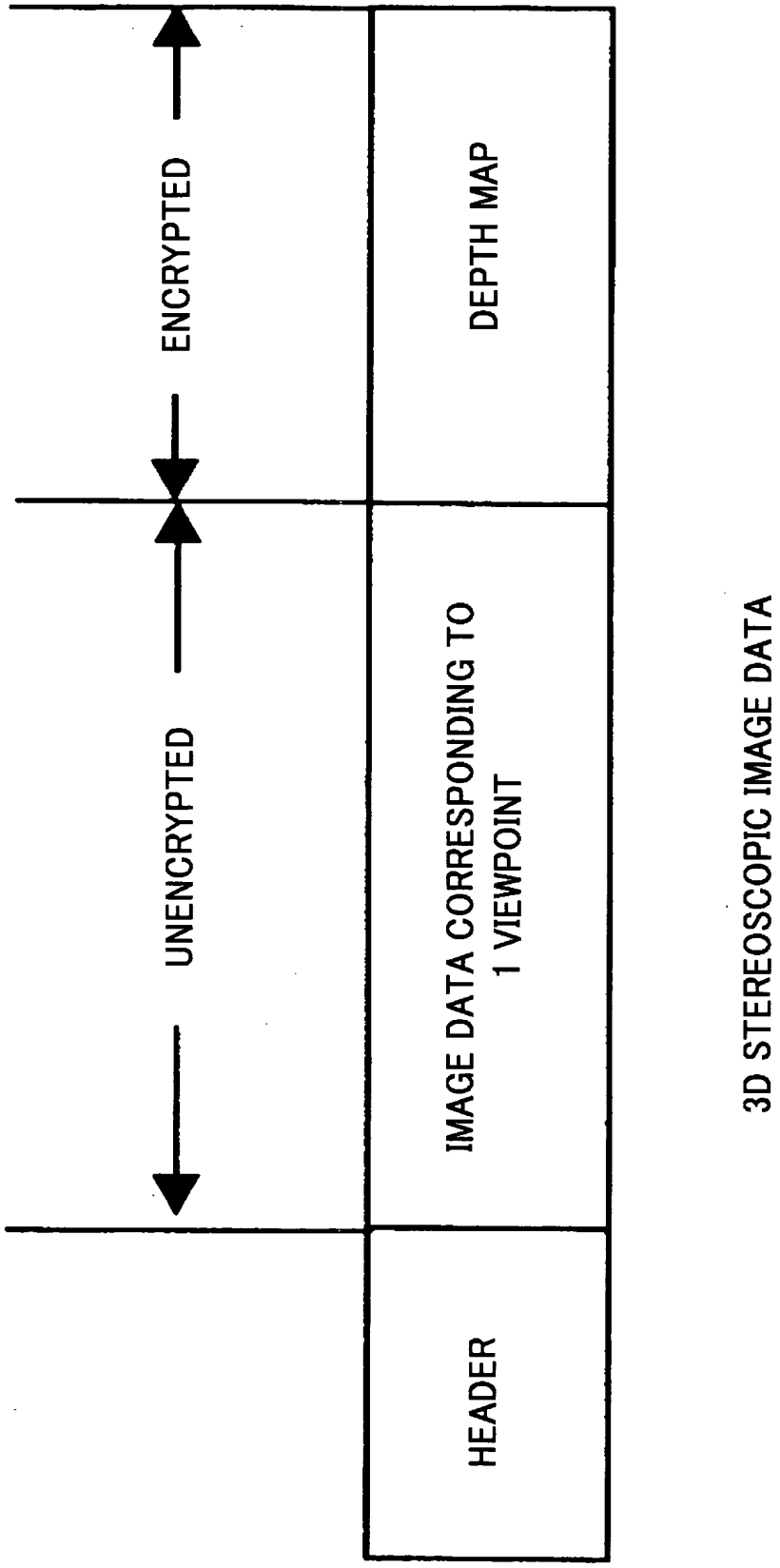
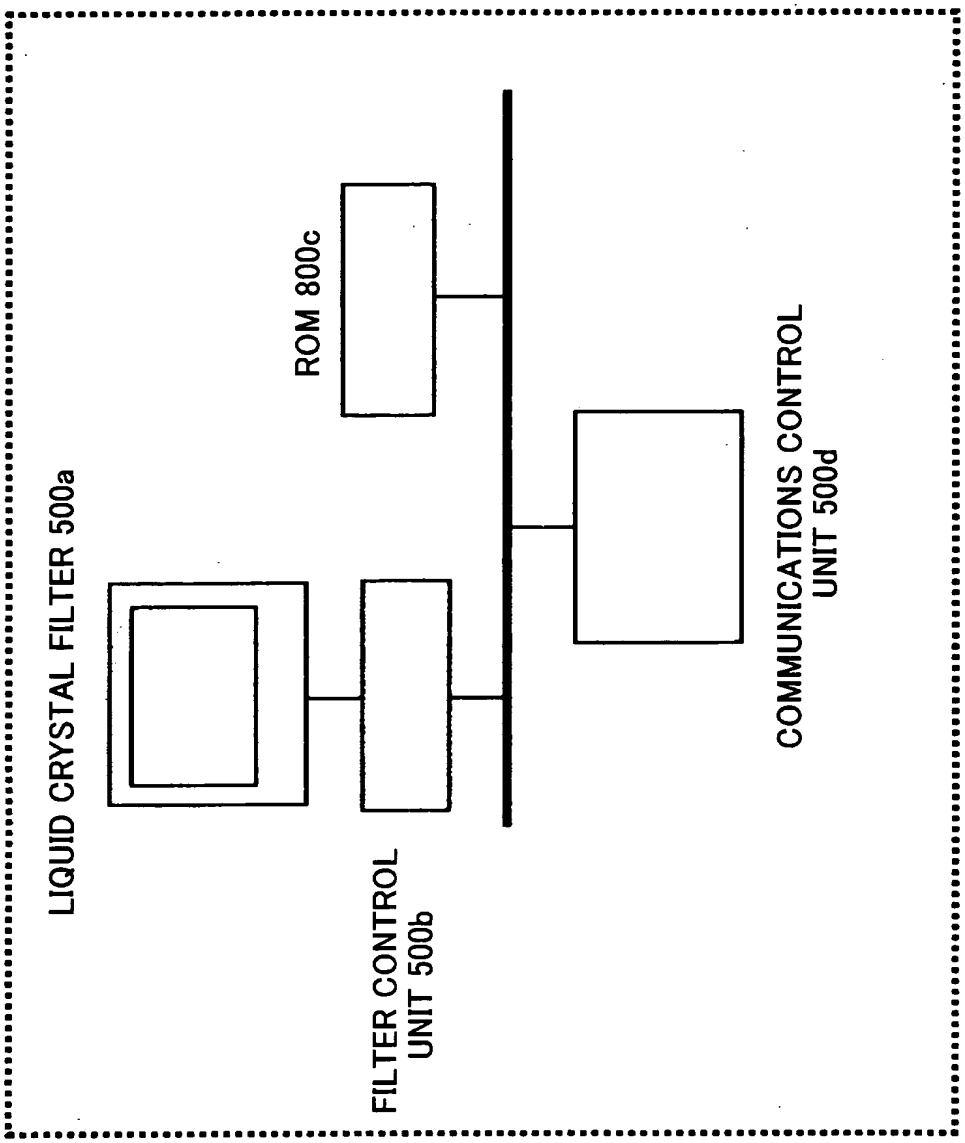

ENCRYPTED
UNENCRYPTED
DEPTH MAP
IMAGE DATA CORRESPONDING TO 1 VIEWPOINT
HEADER
3D STEREOSCOPIC IMAGE DATA

FIG.27


LIQUID CRYSTAL FILTER 500a
ROM 800c
COMMUNICATIONS CONTROL UNIT 500d
FILTER CONTROL UNIT 500b
3D FILTER 800